CP CAM EVOLUTION For Your Demand

MPEG-4 DVR

QUICK

Please read instructions thoroughly before operation and retain it for future reference.

The image shown above may differ from the actual product appearance.

1. OVERVIEW

1.1 Package Contents

- Digital video recorder (DVR) * 1
- Adapter and power cord * 1
- Free licensed software AP disc * 1
- Manual & quick start & IR remote control manual * 1
- HDD bracket screws (spare parts) * 4
- DSUB PIN connector * 1
- IR remote controller * 1
- AAA size battery * 2

Note: Before using the IR remote controller, please install the batteries first.

1.2 Front Panel

1) LED Indication

The following LEDs will be on when:

⏻ / POWER: power is connected
HDD / HDD: HDD is reading or recording / HDD Full: HDD is full
/ ALARM: any event alarm is triggered
/ TIME: timer recording is activated
▷ / PLAY: when the DVR is playback
STANDBY: when the DVR is standby
HDD Full: HDD is full
REC: when the DVR is recording

2) (USB port)

To quickly backup or upgrade firmware/OSD, you can insert a compatible USB flash drive into this USB port. Before using the USB flash drive, please use your PC to format the USB flash drive as “FAT32” first.

Note: For the list of compatible USB flash drives, please refer to “APPENDIX 2 COMPATIBLE USB FLASH DRIVE BRAND” in the user manual.

3) IR receiving zone

If the control panel is removed from the DVR and used as a remote controller, aim the remote controller at this area to control the DVR operation.

4) Password Entering

Use the number buttons to enter the DVR password. Or use + / - buttons to setup the password.

5) Channel Display Selection

Use the number buttons select the channel. Or press “SHIFT + CH + ” and “SHIFT + CH - ” buttons to select the channel.

6) SNAP

When the DVR is not under the menu mode, connect a USB drive to the DVR and then press “SNAP” button to take a snapshot picture of the current live image on the monitor.

7) LIST (Event List Search)

To quick search the recorded files by event list, press “LIST” button or “SHIFT + LIST” buttons to show all types of the event lists.

ALARM: List the information of the alarm-trigger-recorded files.

MANUAL: List the information of the manual-recorded files. The DVR will save one recorded file once any recording setting is changed

MOTION: List the information of the motion-trigger-recorded files.

SYSTEM: List the information of the system-recorded files. The DVR system will save one recorded file every one hour.

TIMER: List the information of the timer-recorded files.

8) PLAY

Press this button to playback the recorded video.

9) MENU

Press this button to enter / exit the quick start menu.
In the sub-layer of the advanced setting menu,
press this button to confirm the settings and go back to the upper layer.

10) ENTER

Confirm the password entering.
Under the advanced menu, use this button to confirm the settings and go back to the upper layer.

11) EJECT / ⏏

Press this button to open / close the DVD-RW drive.

12) SLOW

Under the playback mode, press “SLOW” button or “SHIFT + SLOW” buttons to slowly playback the recorded file (by 1/4 speed or 1/8 speed).

13) ZOOM

Press this button to enlarge the image of the selected channel.

14) AUDIO

Press “SLOW + ZOOM” buttons or “SHIFT + AUDIO” buttons to select the live or playback sound of the audio channels.

Icon “ ” means: Live audio of the 1st audio channel / Icon “ ” means: Playback audio of the 1st audio channel

Icon “ ” means: Live audio of the 2nd audio channel / Icon “ ” means: Playback audio of the 2nd audio channel

Icon “ ” means: Live audio of the 3rd audio channel / Icon “ ” means: Playback audio of the 3rd audio channel

Icon “ ” means: Live audio of the 4th audio channel / Icon “ ” means: Playback audio of the 4th audio channel

Icon “ ” means: The audio channel is not selected.

Note: If you want to make a video backup with audio, please connect audio cameras to the channels which support the audio function
For 16CH & 8CH DVR, the audio channels are CH1, CH2, CH3 and CH4.

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15) SEQ (Sequence)

Press “SEQ” button or “SHIFT + SEQ” buttons the DVR will enter full screen sequence mode. Press again to exit the sequence mode.

16) ⊞

16CH: Press this button to show the 4 / 9 / 16 channel display modes.
8CH: Press this button to show the 4 / 9 channel display modes.

17) PTZ

Press “SEQ + ⊞” buttons or “◄◄ + ►►” buttons at the same time to enter / exit the PTZ control mode.

In the PTZ control mode (Indicated by the icon “ ”):

Zoom in: Press " + " button ; Zoom out: Press " - " button

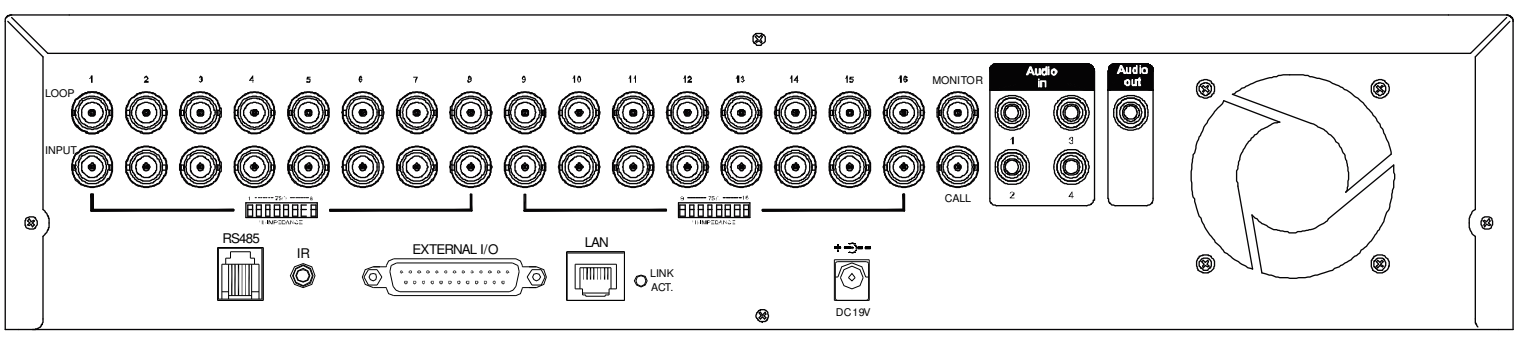
Adjust PTZ angle: Press "UP”, “DOWN”, “LEFT” or “RIGHT" buttons

18) ▮▮ (PAUSE/UP/ +), ◄◄ (REW/LEFT), ►► (FF/RIGHT), ▮ (STOP/DOWN/ -)

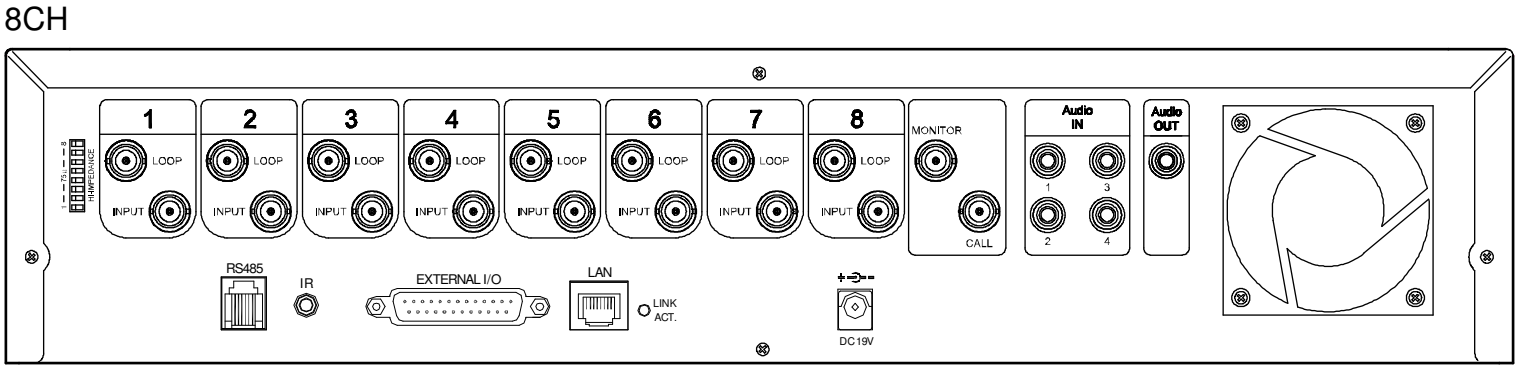
Press one of these direction buttons to move the cursor up/down/left/right.
Under the DVR menu mode, these direction buttons can use for the following operation:
▲ ▼: Make the selection / Change the settings.
◄ ►: Go to the upper layer or sub-layer / Make the selection.
Under the playback mode, press these buttons to pause / stop / fast rewind / fast forward the playback file.

2.2 Rear Panel

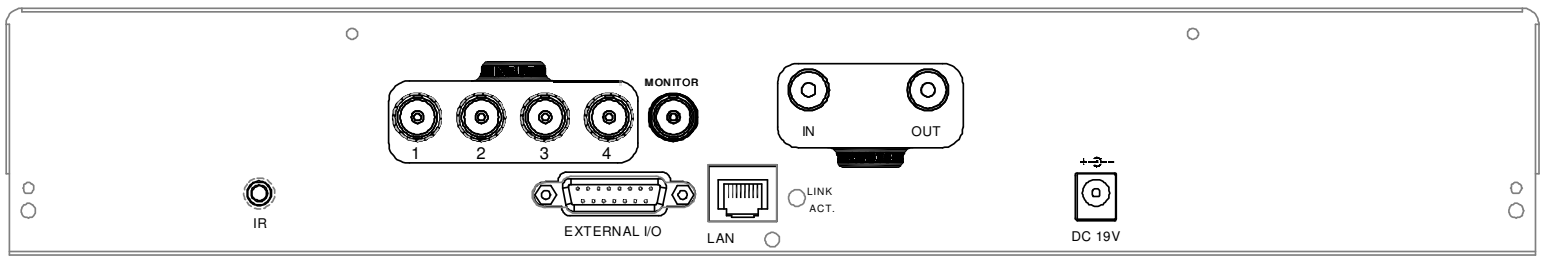
· 16CH



· 8CH



· 4CH



1) 75Ω / HI-IMPEDANCE

When using LOOP function, set the impedance switch at your DVR rear panel to HI-IMPEDANCE to decrease interferences. Otherwise, switch to 75Ω.

Note: The default setting is **75Ω**.

2) LOOP / INPUT (1 ~ 16CH or 1 ~ 8CH)

LOOP: Video output connector.
INPUT: Connect to video sources, such as cameras.

Note: The DVR will automatically detect the video system of the camera, please make sure that the cameras are properly connected to the DVR and power-supplied before the DVR is turned on.

Note: If you want to make a video backup with audio, please connect audio cameras to the channels which support the audio function. For 16CH & 8CH DVR, the audio channels are CH1, CH2, CH3 and CH4.

3) MONITOR

Connect to a CRT monitor for video output.

4) CALL

Connect to CALL monitor to show the channel display one by one.
When any alarm is triggered, CALL monitor will show the image of the triggered channel for a period of time.

5) Audio IN (1 / 2 / 3 / 4)

Connect to audio sources, such as cameras equipped with the audio function.
When users start recording, the audio input will also be recorded with corresponding video channel.

The audio source connected to the “Audio 1” will be recorded with the video of the “CH1”.
The audio source connected to the “Audio 2” will be recorded with the video of the “CH2”.
The audio source connected to the “Audio 3” will be recorded with the video of the “CH3”.
The audio source connected to the “Audio 4” will be recorded with the video of the “CH4”.

Note: If you want to make a video backup with audio, please connect audio cameras to the channels which support the audio function
For 16CH & 8CH DVR, the audio channels are CH1, CH2, CH3 and CH4.
For 4CH DVR, the audio channel is CH1.

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6) Audio OUT

Connect to a monitor or speaker with 1 mono audio output.

7) IR

Connect the IR receiver extension line for remote control.

8) EXTERNAL I/O

Insert the supplied 25PIN DSUB to this port for connecting external devices (external alarm, etc).
For detailed I/O port PIN configuration, please refer to “APPENDIX 1 PIN CONFIGURATION”.

9) LAN

Connect to Internet by LAN cable.

10) LINK ACT.

When your DVR is connected to the Internet, this LED will be on.

11) DC 19V

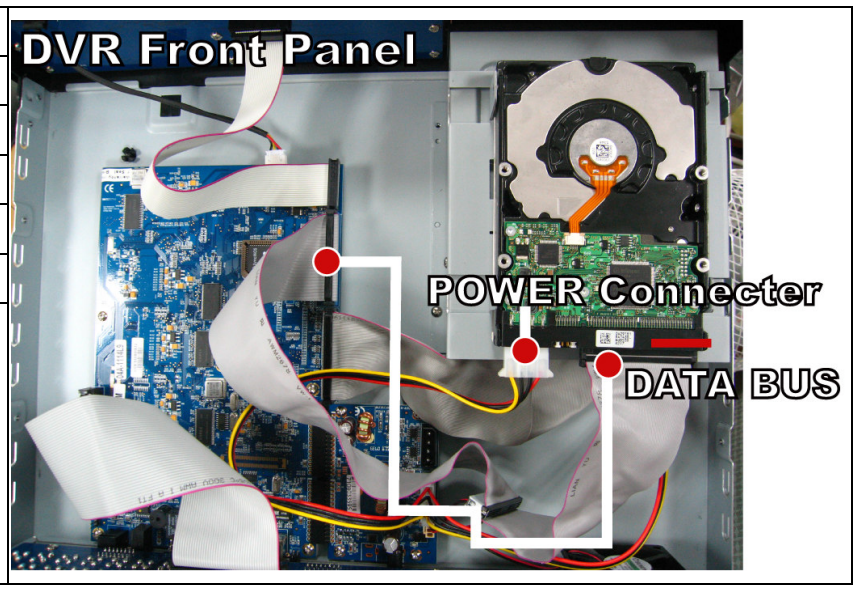
Connect to the supplied adapter.

12) Fan

3. CONNECTIONS AND SETUP (Take 16CH DVR as an example)

3.1 HDD Installation

The HDDs must be installed before the DVR is turned on.



Step 1: Loose the screws on the upper cover and open the upper cover of the DVR.

Step 2: Screw out the HDD bracket.

Step 3: Get a suitable brand HDD and set the HDD mode (**Master**).

Step 4: Align the screw holes of the bracket with the HDD's screw holes. Screw the HDD onto the HDD bracket.

Step 5: Screw the HDD bracket back to the DVR base.

Step 6: Connect the HDD to the power connector and IDE BUS (make sure to align the HDD precisely for pin connection).

Step 7: Close the upper cover of the DVR, and fasten all the screws you loosened in Step 1.

3.2 Camera Connection

The cameras must be connected and power-supplied before the DVR is turned on. Connect the camera with the indicated power supply. And then connect the camera video output to the DVR video input port with a coaxial cable or RCA lines with BNC connectors (**The DVR will automatically detect the video system of the camera**).

Note: For detailed DVR video input / output ports, please refer to "2.2 Rear Panel" at page 2.
For detailed camera operation, please refer to its own manual.

Note: If you want to make a video backup with audio, please connect audio cameras to the channels which support the audio function
For 16CH & 8CH DVR, the audio channels are CH1, CH2, CH3 and CH4.
For 4CH DVR, the audio channel is CH1.

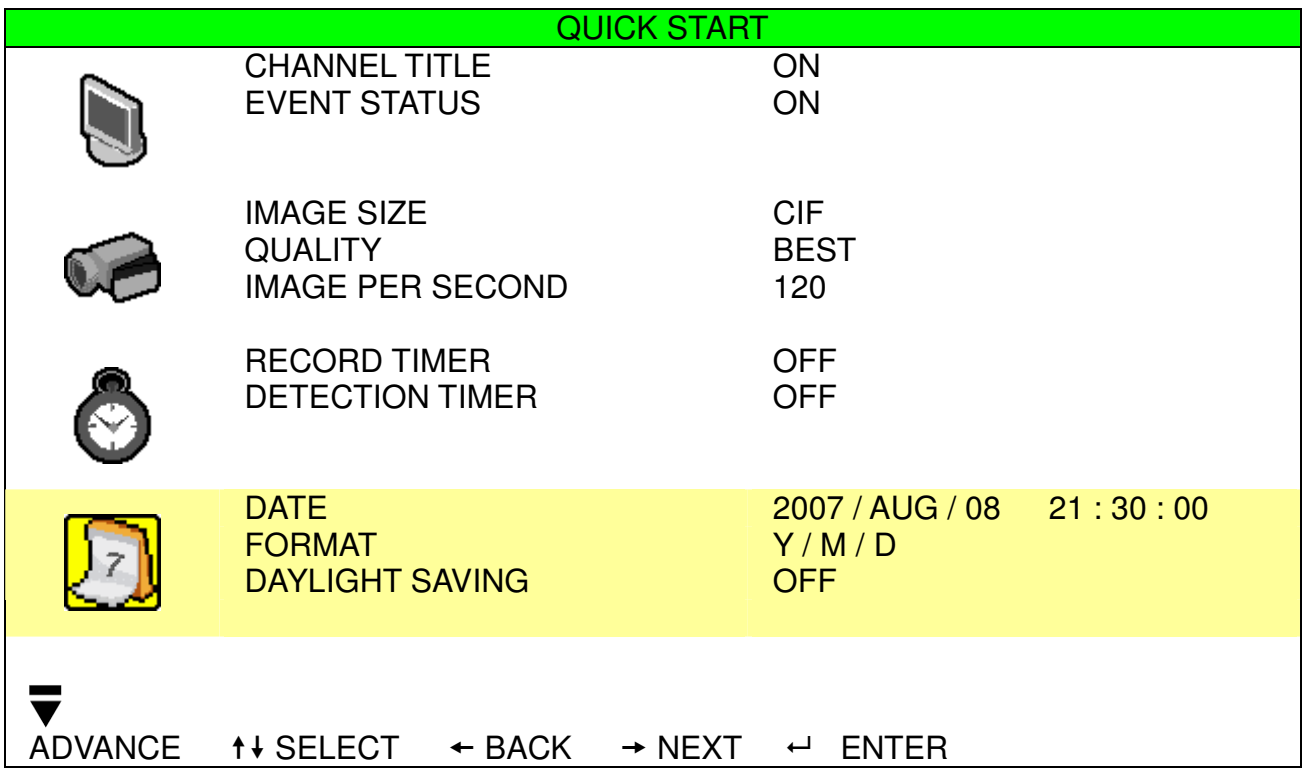
3.3 Power Setup

This device should be operated only with the type of power source indicated on the manufacturer's label. Connect the indicated AC power cord to the power adapter, and plug into an electrical outlet. Power LED "⏻" will be on as blue. It takes approximately 10 to 15 seconds to boot the system.

3.4 Date and Time Setting

Before operating your DVR, please set the date and time on your DVR first.

Press MENU button and enter the password to go to the quick-start menu list. The default admin password is 0000. Move the cursor to the icon and you can set the date / time / daylight saving in this menu list.

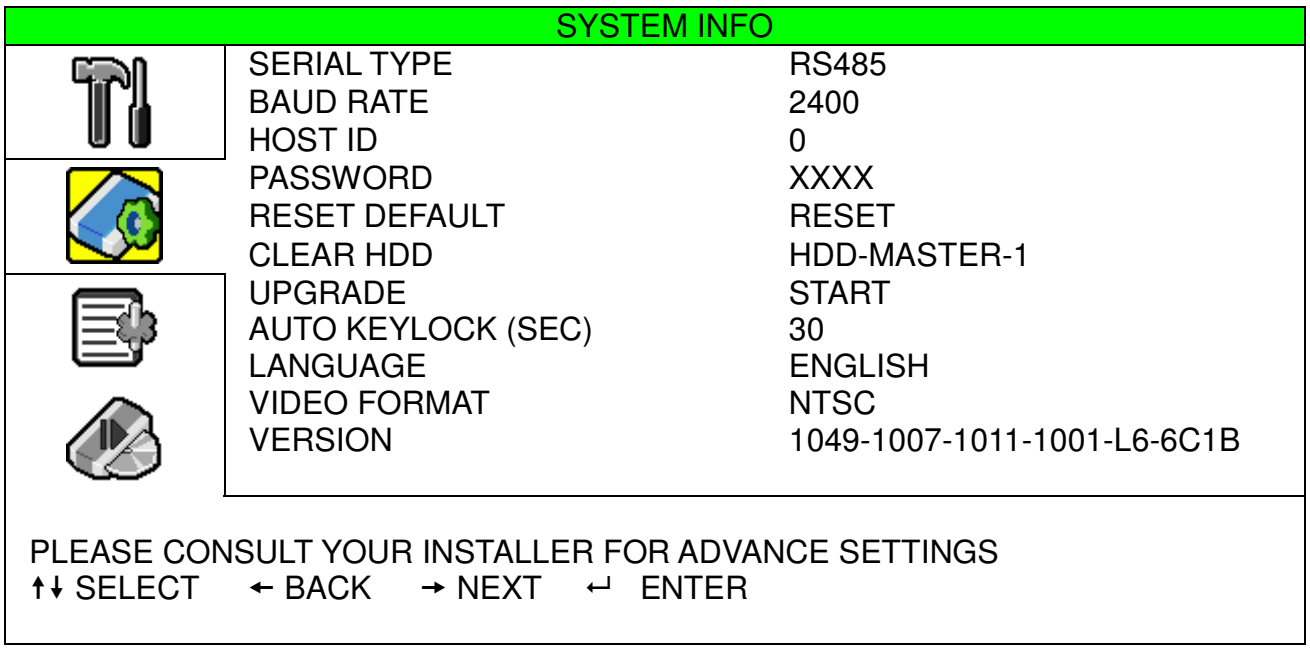

QUICK START
CHANNEL TITLE ON
EVENT STATUS ON
IMAGE SIZE CIF
QUALITY BEST
IMAGE PER SECOND 120
RECORD TIMER OFF
DETECTION TIMER OFF
DATE 2007 / AUG / 08 21 : 30 : 00
FORMAT Y / M / D
DAYLIGHT SAVING OFF
ADVANCE ↑↓ SELECT ← BACK → NEXT ↵ ENTER

Note: If the time and date settings return to their default value after the DVR is rebooted, please charge the DVR for at least 24-48 straight hours. Please contact your local retailer if the situation still occurs.

3.5 Password Setting

Press MENU button and enter the password to go to the quick-start menu list. And then move the cursor to “ADVANCE” to enter the advanced setting menu.

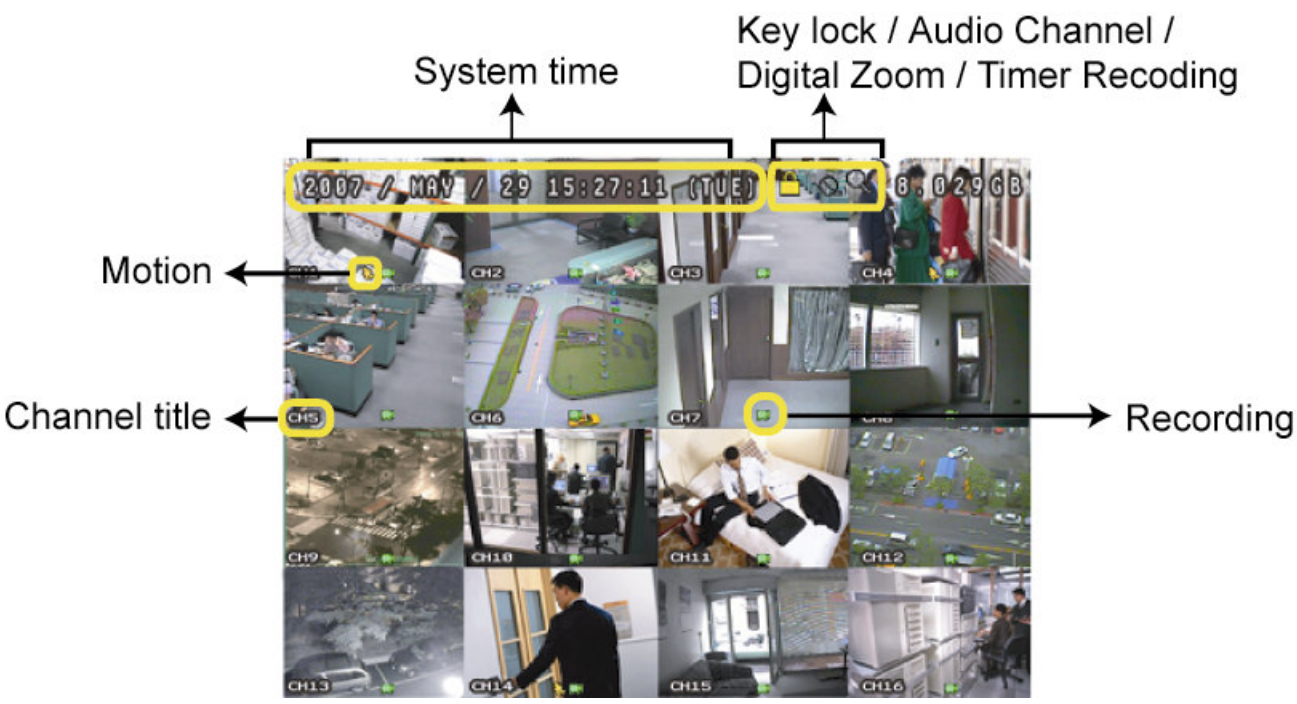
In the “ADVANCE” menu, move the cursor to “ SYSTEM INFO ”. Select “PASSWORD” and press ENTER button to enter the submenu to set the password (four digits). The default admin password is 0000.



4. BASIC OPERATION (Take 16CH DVR as an example)

4.1 Live Page

In this live page of the DVR, you can see the live viewing of 1- / 4- / 9- / 16-cut screen.



Icon	Function	Icon	Function	Icon	Function	Icon	Function
	Key lock		Key unlock		1st live audio channel		2nd live audio channel
	3rd live audio channel		4th live audio channel		Audio channel unselected		Digital zoom mode
	Digital zoom unselected		Timer recording		Motion		Recording
	Alarm						

4.2 Recording

When the recording and the pre-alarm function are activated, this device will overwrite 8GB data from the oldest for continuous recording without notice.

1) Continuous Recording Icon

When the DVR is properly connected with camera, you can see the icon " " (recording) on the screen.

2) Event Recording Icon

When the motion / alarm detection is activated, once motion or external alarm happens, you will see the icon " " (motion) or " " (external alarm) on the screen.

3) Timer Recording Icon

When the timer record is activated, you will see the icon " " (timer) on the screen.

Note: The audio source connected to the "Audio 1" will be recorded with the video of the "CH1".
The audio source connected to the "Audio 2" will be recorded with the video of the "CH2".
The audio source connected to the "Audio 3" will be recorded with the video of the "CH3".
The audio source connected to the "Audio 4" will be recorded with the video of the "CH4".

4.3 Playback

Press the "**PLAY**" button on the DVR control panel, and the device will playback the latest recorded video.

Note: There must be at least 8192 images of recorded data for playback to work properly. If not, the device will stop playback. For example, if the IPS is set to 30, the recording time should be at least 273 seconds (8192 images / 30 IPS) for the playback to work properly.

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1) Fast Forward (►►) / Fast Rewind (◄◄)

You can increase the speed for fast forward and rewind on this device. In the playback mode:
Press "►►" once to get 4X speed forward and press twice to get 8X speed, etc. And the maximum speed is 32X.
Press "◄◄" once to get 4X speed rewind and press twice to get 8X speed, etc. And the maximum speed is 32X.

Note: During playback, the image size of the recording (Frame, Field or CIF) will be shown on the screen.

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2) Pause (❚❚) / Image Jog

Press "PAUSE" or "❚❚" button to pause the playback.
In the Pause mode:
Press "►►" button once to get one frame forward.
Press "◄◄" button once to get one frame rewind.

3) Stop / ■

Press "STOP" or "■" button under playback mode, the screen of this device will return to live monitoring mode.

4) Slow Playback

Press "SLOW" button to get 1/4X speed playback and press twice to get 1/8X speed playback.

5) Audio Playback

Press "SLOW + ZOOM" buttons or "SHIFT + AUDIO" buttons to select the live or playback sound of the audio channels.

Icon " " means: Live audio of the 1st audio channel / Icon " " means: Playback audio of the 1st audio channel

Icon " " means: Live audio of the 2nd audio channel / Icon " " means: Playback audio of the 2nd audio channel

Icon " " means: Live audio of the 3rd audio channel / Icon " " means: Playback audio of the 3rd audio channel

Icon " " means: Live audio of the 4th audio channel / Icon " " means: Playback audio of the 4th audio channel

Icon " " means: The audio channel is not selected.

Note: If you want to make a video backup with audio, please connect audio cameras to the channels which support the audio function
For 16CH & 8CH DVR, the audio channels are CH1, CH2, CH3 and CH4.
For 4CH DVR, the audio channel is CH1.

4.4 Key Lock and Unlock

1) Key Lock On:

Press "MENU + ENTER" buttons on the DVR control panel to lock keys.
Or set the time-out after which the key lock function is activated (Never / 10 SEC / 30 SEC / 60 SEC).

2) Key Lock Off:

Enter the DVR password to exit "Key Lock" mode.

Note: For the password setting, please refer to the section "3.5 Password Setting" at page 5.

4.5 Upgrade

· **Firmware / Multilanguage OSD Upgrade**

1) Use USB to upgrade firmware or OSD:

Step 1. Format the USB memory device as FAT32 format first.

Step 2. Get the upgrade files from your distributor and save the upgrade files in your USB flash device (do not change the file name).

Step 3. In the “ ” (SYSTEM INFO) menu, move the cursor to “UPGRADE”, and press ENTER button.

Step 4. Select “YES”, and press ENTER button again to confirm upgrade.

2) Use AP software to remotely upgrade firmware or OSD:

Step 1. Save the upgrade files at your PC (do not change the file name) and then login to the AP software.

Step 2. Press “ ” (Miscellaneous Control) button to show the miscellaneous control panel. In the miscellaneous control panel, press “ ” (Tools) button on the miscellaneous control panel to enter the AP upgrade window.

Step 3. Enter the user name, password, IP address and port number of the DVR.

Step 4. Press “Firmware” or “Language” tab as needed, and press “Add” to select the firmware or OSD files to upgrade.

Step 5. Press “Update Firmware” or “Update Language” button to start the upgrade.

4.6 Search

1) Search by List

Press “LIST” button on the DVR control panel to show the list for all types of the recorded files. Choose the list you want to view and press ENTER button to start playback.

ALARM	List the information of the alarm-trigger-recorded files.
MANUAL	List the information of the manual-recorded files. The DVR will save one recorded file once any recording setting is changed
MOTION	List the information of the motion-trigger-recorded files.
SYSTEM	List the information of the system-recorded files. The DVR system will save one recorded file every one hour.
TIMER	List the information of the timer-recorded files.

2) Search by Time

In the “ ” (EVENT LOG) menu list, move the cursor to “QUICK SEARCH”, and press ENTER button to enter the quick search menu. You can search any specific events by time (Year / Month / Day / Hour / Min) and directly play the file you find.

3) Search the Record Event by Log on the AP Software

Press “ ” (Miscellaneous Control) button to show the miscellaneous control panel. In the miscellaneous control panel, press “ ” (Log) button to enter the “Log View” page. In this log view page, you can see the list of three different types of recording (User / Motion / Alarm) and press “Play” button to directly playback the file.